

GUJARAT TECHNOLOGICAL UNIVERSITY**BE(Minor) - SEMESTER- V EXAMINATION – WINTER 2023****Subject Code:115AD01****Date:07-02-2024****Subject Name: Smart Village Surveys****Time: 10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1 (a) Write Need and Objective of Surveys.	03
(b) What is collaborative land use planning?	04
(c) Explain about Pre-Execution of Survey.	07
Q.2 (a) Write use of Tapes and Sensors for measurement.	03
(b) Explain basic concept of Aerial Photography.	04
(c) Write a short note on	07
i. Housing Survey	
ii. Electronic distance measurement (EDM)	
OR	
(c) Explain basic concept of E-governance.	07
Q.3 (a) Distinguish Logistic Transport and Public Transport.	03
(b) Explain relationship between Tourism and Entertainment.	04
(c) Enlist and Explain advantages of carrying out a Village Environmental Planning Survey.	07
OR	
Q.3 (a) Why is the Agriculture enterprise important?	03
(b) Enlist various key services or functions of ICT which can be used in the context of agriculture.	04
(c) Explain about Smart Banking Technology.	07
Q.4 (a) What is smart energy and smart grid?	03
(b) What are the ways to control pollution? Explain any two in detail.	04
(c) Explain Geoinformatics in village development.	07
OR	
Q.4 (a) Enlist Sources of Drinking water.	03
(b) What is gap analysis? What difference you found between urban and rural Public Infrastructure.	04
(c) Explain patterns of distribution network in water distribution system.	07
Q.5 (a) What is the green zone in India?	03
(b) How stakeholder engagement can drive infrastructure project success?	04
(c) Explain about Public Safety and Emergency Response.	07
OR	
Q.5 (a) Why awareness for Disaster is required?	03
(b) Write difficulties faced during village survey.	04
(c) What are the methods of water conservation? Explain any two in detail.	07
